

## IN THE CLAIMS

Independent claim 30 has been canceled. Dependent claim 31 has been amended and changed into independent form. The pending claims are provided below for the convenience of the Examiner.

1. A method of determining if the content of a source MPEG-2 stream, may be reduced, said method comprising the steps of:

- a) examining said source stream to determine if a sequence\_display\_extension follows the most recent sequence header and sequence extension;
- b) confirming that horizontal\_size is greater than display\_horizontal\_size or that vertical\_size is greater than display\_vertical\_size; and
- c) if steps a) and b) are met, reducing the content of said source stream to create a reformatted stream.

2. The method of claim 1 where step c) comprises the steps of:

- i) calculating the values of: width\_mb and height\_mb;
- ii) calculating the values of: top, bottom, left and right;
- iii) calculating the values: of top\_mb, bottom\_mb, left\_mb and right\_mb;
- iv) substituting into said reformatted stream a portion of new\_horizontal\_size for horizontal\_size and a portion of new\_vertical\_size for vertical\_size; and
- v) substituting into said reformatted stream a portion of new\_horizontal\_size for horizontal\_size extension and a portion of new\_vertical\_size for vertical\_size extension.

3. The method of claim 2 wherein the portion of step iv) is 12 bits.

4. The method of claim 2 wherein the portion of step v) is 2 bits.

5. The method of claim 2 further comprising the step of:

- vi) removing picture\_display\_extension data from said source stream when creating said reformatted stream,

6. The method of claim 5 further comprising the step of:

vii) removing macroblocks from said source stream if their horizontal position is less than left\_mb or greater than right\_mb or if their vertical position is less than top\_mb or greater than bottom\_mb, when creating said reformatted stream

7. The method of claim 6 further comprising the step of:

viii) removing slices from said source stream which contain no macroblocks, when creating said reformatted stream

8. The method of claim 7 further comprising the step of:

ix) subtracting the value of top\_mb from each slice\_start\_code, if slice\_start\_code becomes less than one, then setting it to one, in said reformatted stream.

16. A computer readable medium containing instructions for reducing the content of an MPEG-2 source stream, said instructions performing the steps of:

a) examining said source stream to determine if a sequence\_display\_extension follows the most recent sequence header and sequence extension;

b) confirming that horizontal\_size is greater than display\_horizontal\_size or that vertical\_size is greater than display\_vertical\_size; and

c) if steps a) and b) are met, reducing the content of said source stream to create a reformatted stream.

17. The medium of claim 16 wherein step c) comprises the steps of:

i) calculating the values of: width\_mb and height\_mb;

ii) calculating the values of: top, bottom, left and right;

iii) calculating the values of top\_mb, bottom\_mb, left\_mb and right\_mb;

iv) introducing into said reformatted stream a portion of new\_horizontal\_size for horizontal\_size and a portion of new\_vertical\_size for vertical\_size; and

v) introducing into said reformatted stream a portion of new\_horizontal\_size for horizontal\_size extension and a portion of new\_vertical\_size for vertical\_size extension.

18. The medium of claim 17 wherein the portion of step iv) is 12 bits.

19. The medium of claim 18 wherein the portion of step v) is 2 bits.

20. The medium of claim 19 further containing the step of:
  - vi) in creating said reformatted stream, removing picture\_display\_extension data from said source stream.
21. The medium of 20 further containing the step of:
  - vii) in creating said reformatted stream, removing macroblocks from said source stream if their horizontal position is less than left\_mb or greater than right\_mb or if their vertical position is less than top\_mb or greater than bottom\_mb.
22. The medium of claim 21 further containing the step of:
  - viii) in creating said reformatted stream, removing slices from said source stream which contain no macroblocks.
23. The medium of claim 22 further containing the step of:
  - ix) subtracting the value of top\_mb from each slice\_start\_code, if slice\_start\_code becomes less than one, then setting it to one, in said reformatted stream.
30. (Canceled) A video transcoder, said transcoder including a pan-scan module.
31. (Currently Amended) A video transcoder including a pan-scan module, the pan-scan module configured to perform the following steps:~~The transcoder of claim 30 wherein said pan-scan module performs the following steps:~~
  - a) examining a source video stream to determine if a sequence\_display\_extension follows the most recent sequence header and sequence extension;
  - b) confirming that horizontal\_size is greater than display\_horizontal\_size or that vertical\_size is greater than display\_vertical\_size; and
  - c) if steps a) and b) are met, reducing the content of said source stream to create a reformatted stream.
32. The transcoder of claim 31 where step c) comprises the steps of:
  - i) calculating the values of: width\_mb and height\_mb;
  - ii) calculating the values of: top, bottom, left and right;
  - iii) calculating the values: of top\_mb, bottom\_mb, left\_mb and right\_mb;

iv) substituting into said reformatted stream a portion of new\_horizontal\_size for horizontal\_size and a portion of new\_vertical\_size for vertical\_size; and

v) substituting into said reformatted stream a portion of new\_horizontal\_size for horizontal\_size extension and a portion of new\_vertical\_size for vertical\_size extension.

33. The transcoder of claim 32 wherein the portion of step iv) is 12 bits.

34. The transcoder of claim 32 wherein the portion of step v) is 2 bits.

35. The transcoder of claim 32 wherein said pan-scan module performs the additional step of:

vi) removing picture\_display\_extension data from said source stream when creating said reformatted stream,

36. The transcoder of claim 35 wherein said pan-scan module performs the additional step of:

vii) removing macroblocks from said source stream if their horizontal position is less than left\_mb or greater than right\_mb or if their vertical position is less than top\_mb or greater than bottom\_mb, when creating said reformatted stream

37. The transcoder of claim 36 wherein said pan-scan module performs the additional step of:

viii) removing slices from said source stream which contain no macroblocks, when creating said reformatted stream

38. The transcoder of claim 37 wherein said pan-scan module performs the additional step of:

ix) subtracting the value of top\_mb from each slice\_start\_code, if slice\_start\_code becomes less than one, then setting it to one, in said reformatted stream.